

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 05009688
PUBLICATION DATE : 19-01-93

APPLICATION DATE : 06-07-91
APPLICATION NUMBER : 03192637

APPLICANT : KOBE STEEL LTD;

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INT.CL. : C22F 1/18

TITLE : MANUFACTURE OF ZR ALLOY ROLLED STOCK EXCELLENT IN WORKABILITY

ABSTRACT : PURPOSE: To provide a method for manufacturing a Zr alloy rolled stock suitable as a core member such as a pressure tube, a cladding tube and a channel box in a nuclear reactor or a structural member for a reprocessing plant and excellent in corrosion resistance and mechanical properties as well as workability.

CONSTITUTION: An $\alpha+\beta$ type Zr alloy ingot is heated to 1000 to 1100°C, is thereafter subjected to blooming or cogging, at $\geq 920^\circ\text{C}$, is cooled to $\leq 600^\circ\text{C}$, is again heated to 700 to 900°C, is subjected to hot rolling of ≥ 1.3 forging ratio and is furthermore heated to 920 to 1050°C.

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